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PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P00245WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/month/year) Priority date (day/month/year)						
PCT/EP2003/014936	29 décembre 2003 (29.12.2003) 14 janvier 2003 (14.01.2003)						
International Patent Classification (IPC) or national classification and IPC F23Q 7/00							
Applicant SIEMENS VDO AUTOMOTIVE							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	4 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.							
3. This report contains indications relat	ing to the following items						
Basis of the report	mg to the following items:						
II Priority							
III Non-establishment	of opinion with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of inv	vention						
V Reasoned statement citations and explan	t under Article 35(2) with regard to novelty, inventive step or industrial applicability; nations supporting such statement						
VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand	Date of completion of this report						
06 août 2004 (06.08.20	24 November 2004 (24.11.2004)						
Name and mailing address of the IPEA/EP	Authorized officer						
Facsimile No.	Telephone No.						



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/014936

I. Basis of the report							
1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):							
	the international	application as originally filed.					
\boxtimes	the description,	pages1-7	_, as originally filed,				
		pages	_, filed with the demand,				
		pages	_, filed with the letter of,				
		pages	_, filed with the letter of				
\boxtimes	the claims,	Nos. 1-10	_ , as originally filed,				
		Nos	, as amended under Article 19,				
		Nos	_ , filed with the demand,				
		Nos.	, filed with the letter of,				
		Nos.	, filed with the letter of				
\square	the drawings,	sheets/fig1/2-2/2	_ , as originally filed,				
		sheets/fig	_ , filed with the demand,				
		sheets/fig	, filed with the letter of,				
		sheets/fig	_ , filed with the letter of				
2. The amend	ments have resulte	ed in the cancellation of:	Í				
	the description,	pages					
	the claims,	Nos					
	the drawings,	sheets/fig					
This	roport has been a	rtablished as if (same of the on	and would had not have made since they have have associated				
3. to go	beyond the discl	osure as filed, as indicated in the	nendments had not been made, since they have been considered e Supplemental Box (Rule 70.2(c)).				
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4. Addinonal	observations, if no	ecessary:					
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/14936

1-10

NO

YES

NO

V. 	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement					
l.	Statement					
	Novelty (N)	Claims	1-10	YES		
		Claims		NO		
	Inventive step (IS)	Claims	1-10	YES		
myenere stop (10)						

Claims

Claims

Claims

2. Citations and explanations

Industrial applicability (IA)

The following documents cited in the search report are mentioned in present report:

D1: EP 1 096 141 A

D2: JP 2002 339793 A

D3: JP 07 139736 A

1. Document D1 (figures 1-3) can be considered to be the closest prior art. D1 describes an internal combustion engine spark plug as per the preamble of claim 1. The pressure in the combustion chamber is measured by means of a piezoelectric element that detects the movement of an internal portion (204) of the plug relative to an external portion (201) thereof. There is no measurement or detection of any movement relative to the engine cylinder head (1). It follows that the subject matter of claim 1 is novel (PCT Article 33(2)).

The spark plugs shown in documents D2 and D3 also measure the pressure in the combustion chamber in a self-contained manner, i.e. without quantifying the movement of one portion of the spark plug relative to the engine cylinder head. It follows that a

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/14936

person skilled in the art would not be able to arrive at the subject matter of claim 1 by combining these documents. Therefore, the subject matter of claim 1 involves an inventive step as defined in PCT Article 33(3). Industrial applicability is obvious.

 Neither document D1 nor the prior art therein has been cited in the description (PCT Rule 5.1(a)(ii)).